FIG.1

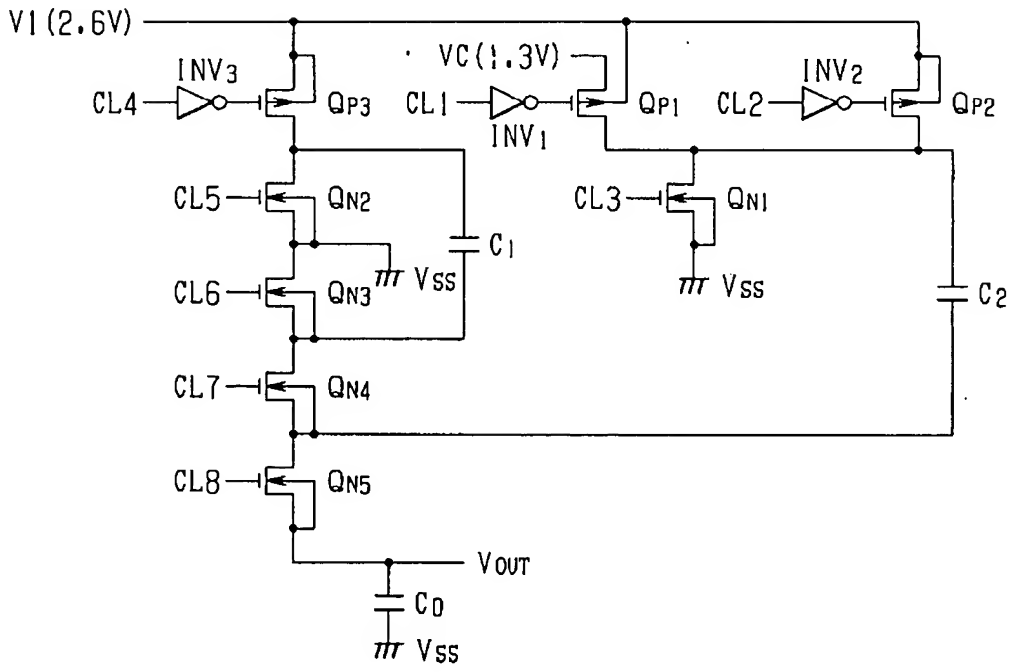

V1 (2.6V)
VC (1.3V)
INV3
INV2
CL4
QP3
CL1
QP1
CL2
QP2
INV1
CL5
QN2
CL3
QN1
C1
CL6
QN3
VSS
VSS
C2
CL7
QN4
CL8
QN5
VOUT
CD
VSS

FIG.2

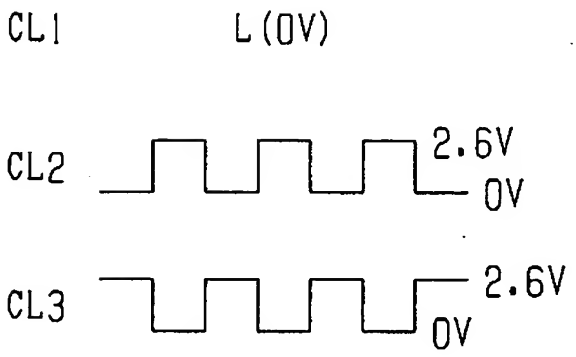

CL1
L (0V)
CL2
2.6V
0V
CL3
2.6V
0V

FIG.3

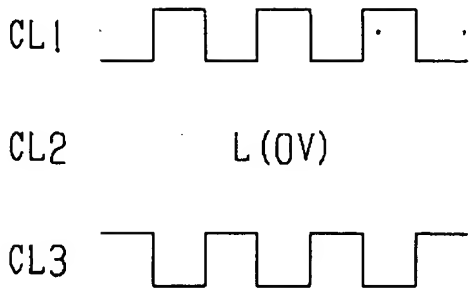

CL1
CL2
L (0V)
CL3

FIG.4

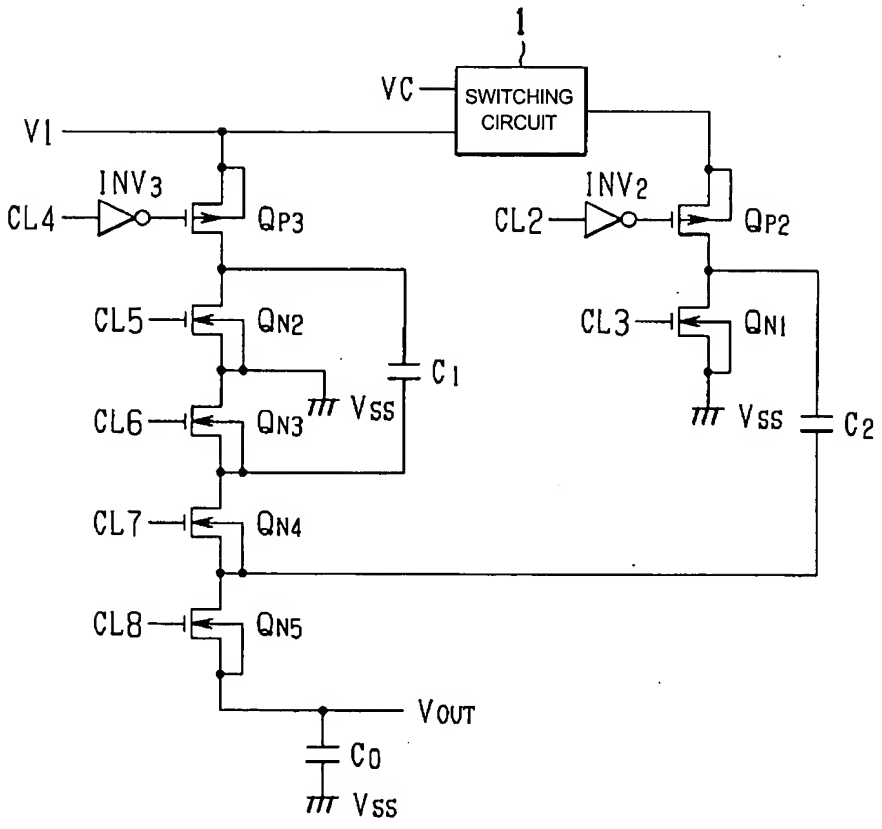

1
VC
SWITCHING CIRCUIT
VI
INV3
CL4
QP3
INV2
CL2
QP2
CL5
QN2
C1
CL6
QN3
VSS
CL3
QN1
VSS
C2
CL7
QN4
CL8
QN5
VOUT
CO
VSS

FIG.5

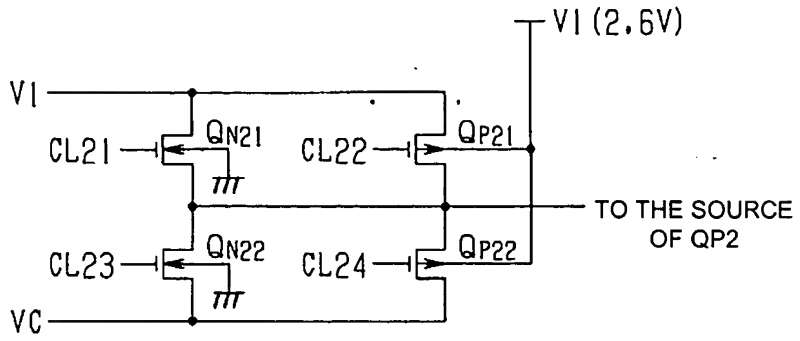
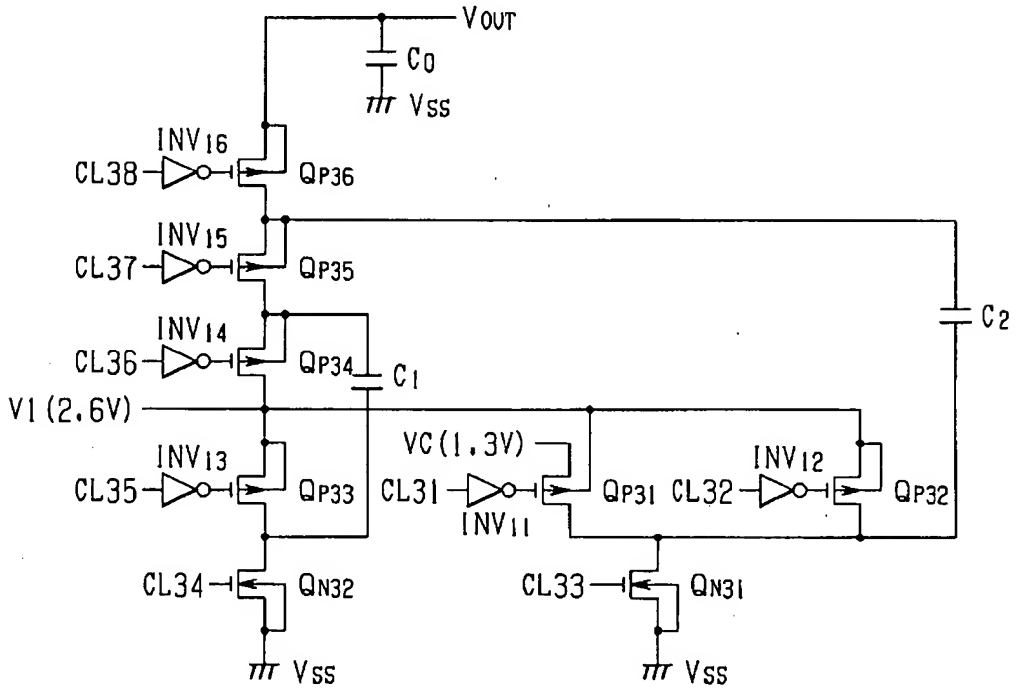

VI (2.6V)
VI
CL21
QN21
CL22
QP21
TO THE SOURCE OF QP2
CL23
QN22
CL24
QP22
VC

FIG.6


VOUT
CO
VSS
INV16
CL38
QP36
INV15
CL37
QP35
INV14
CL36
QP34
C1
C2
VI (2.6V)
INV13
CL35
QP33
VC (1.3V)
CL31
INV11
QP31
CL32
INV12
QP32
CL34
QN32
CL33
QN31
VSS
VSS

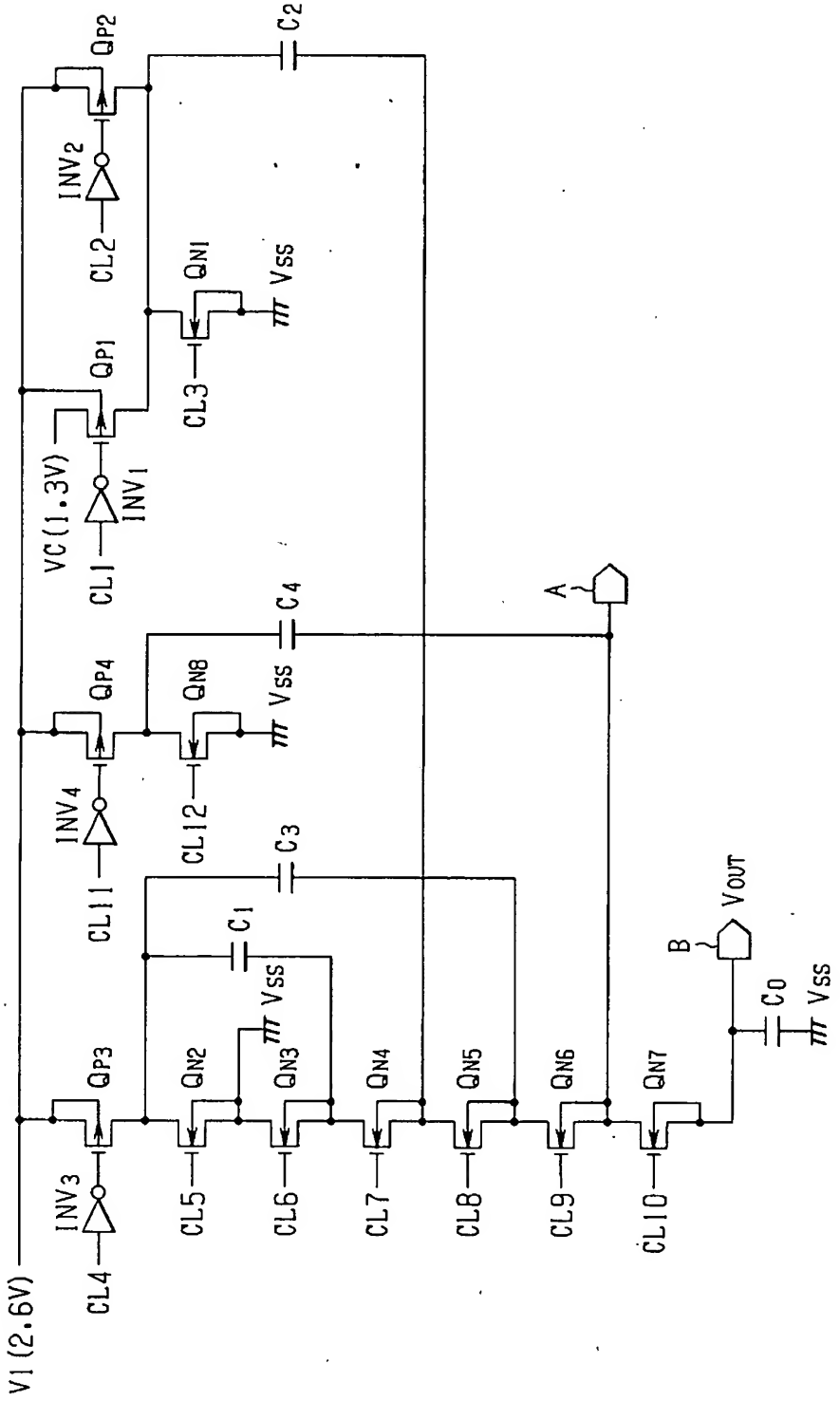

QP2
C2
INV2
CL2
QN1
VSS
QP1
CL3
VC(1.3V)
INV1
CL1
A
C4
QP4
QN8
VSS
INV4
CL12
C3
CL11
C1
VOUT
B
VSS
C0
QP3
QN2
QN3
QN4
QN5
QN6
QN7
INV3
CL5
CL6
CL7
CL8
CL9
CL10
CL4
V1(2.6V)

FIG.7

FIG.8

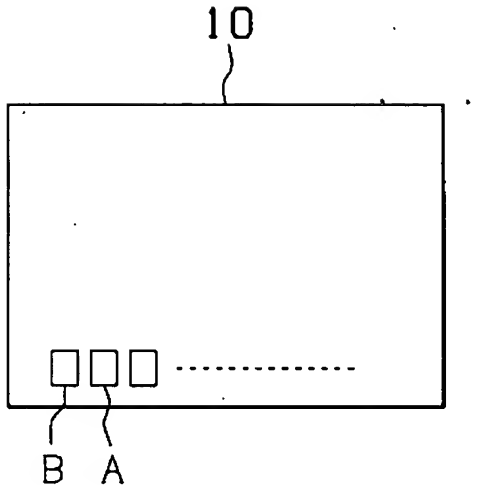


FIG.9

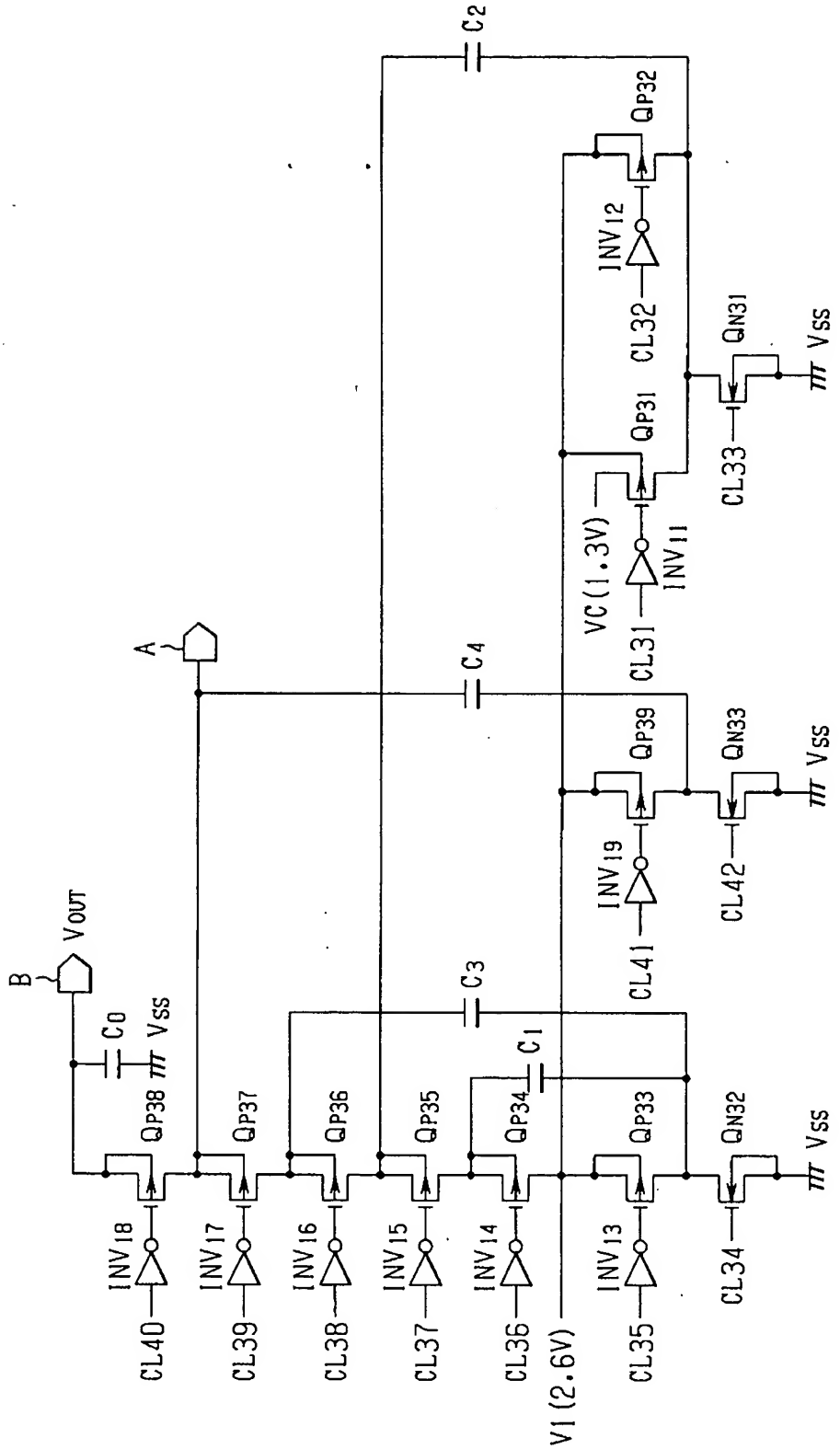

C2
QP32
INV12
CL32
QN31
Vss
QP31
CL33
VC(1.3V)
INV11
CL31
A
C4
QP39
QN33
Vss
INV19
CL42
CL41
B
VOUT
C3
C0
Vss
C1
QP38
QP37
QP36
QP35
QP34
QP33
QN32
Vss
INV18
INV17
INV16
INV15
INV14
INV13
CL34
CL40
CL39
CL38
CL37
CL36
CL35
V1(2.6V)

FIG.10 (A)

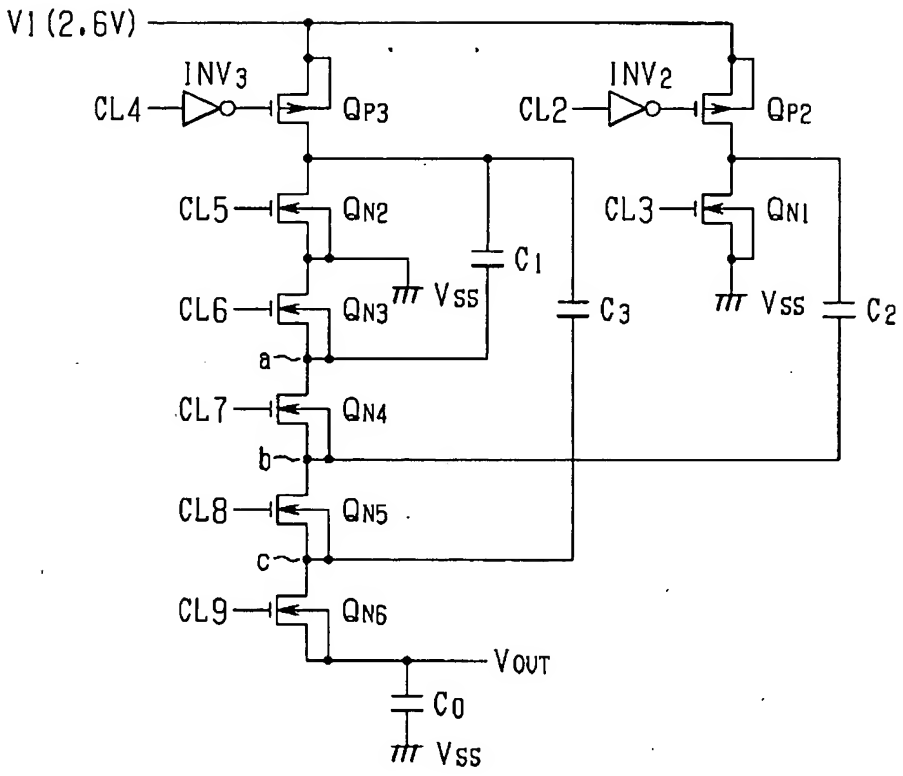


FIG.10 (B)

FIG.11

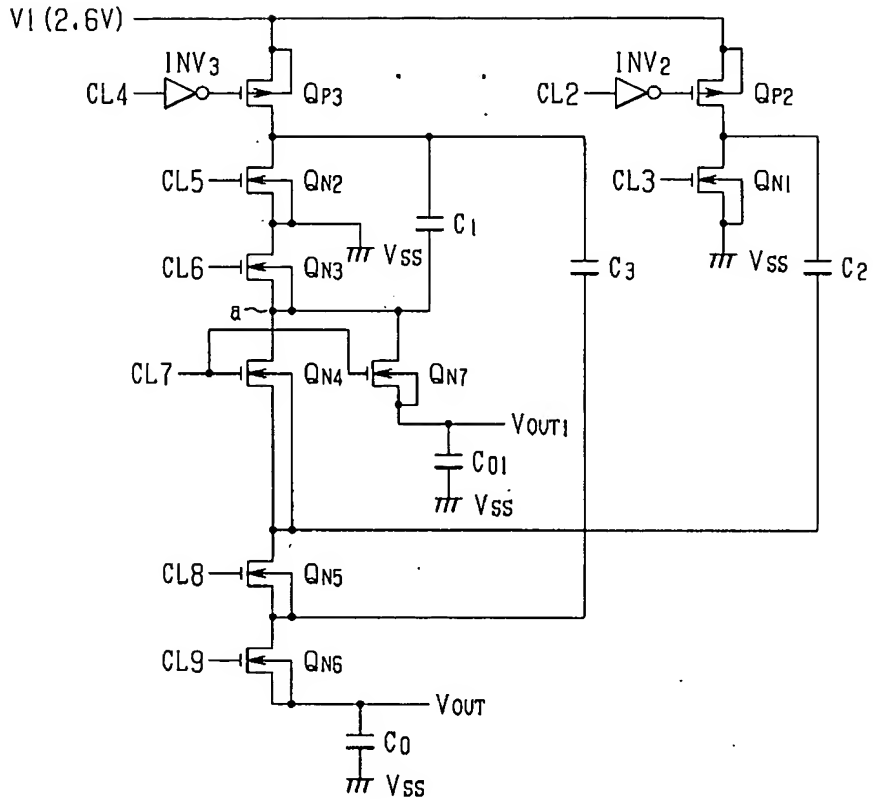

VI (2.6V)
INV3
CL4
QP3
INV2
CL2
QP2
CL5
QN2
CL3
QN1
C1
CL6
QN3
VSS
C3
VSS
C2
a
CL7
QN4
QN7
VOUT1
C01
VSS
CL8
QN5
CL9
QN6
VOUT
C0
VSS

FIG.12

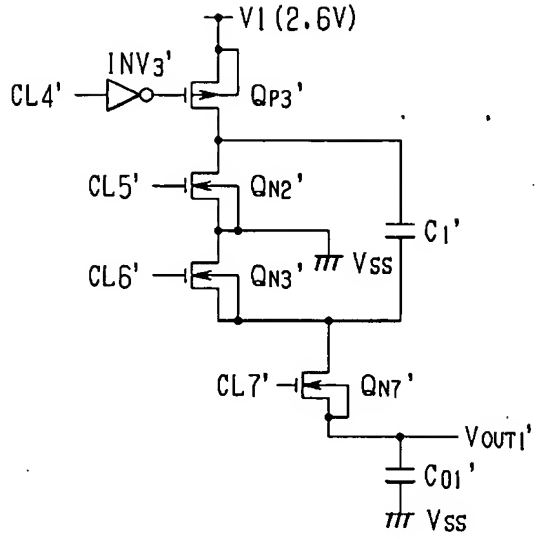

VI (2.6V)
INV3'
CL4'
QP3'
CL5'
QN2'
CI'
CL6'
QN3'
VSS
CL7'
QN7'
VOUTI'
COI'
VSS

FIG.13

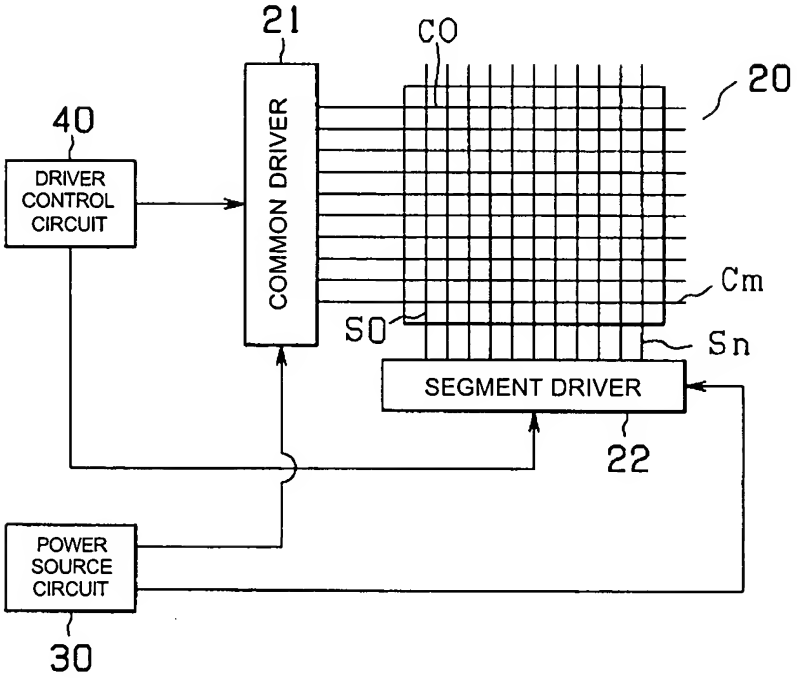

21
CO
20
40
DRIVER CONTROL CIRCUIT
COMMON DRIVER
Cm
SO
Sn
SEGMENT DRIVER
22
POWER SOURCE CIRCUIT
30

FIG.14

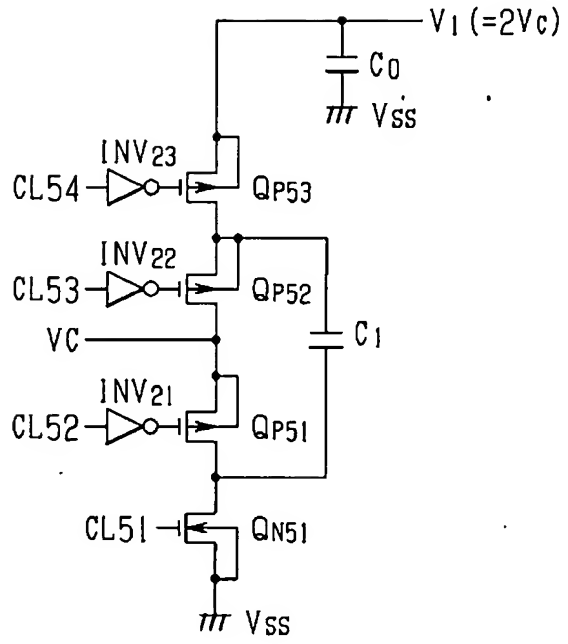

V1 (=2Vc)
C0
Vss
INV23
CL54
QP53
INV22
CL53
QP52
C1
VC
INV21
CL52
QP51
CL51
QN51
Vss

FIG.15

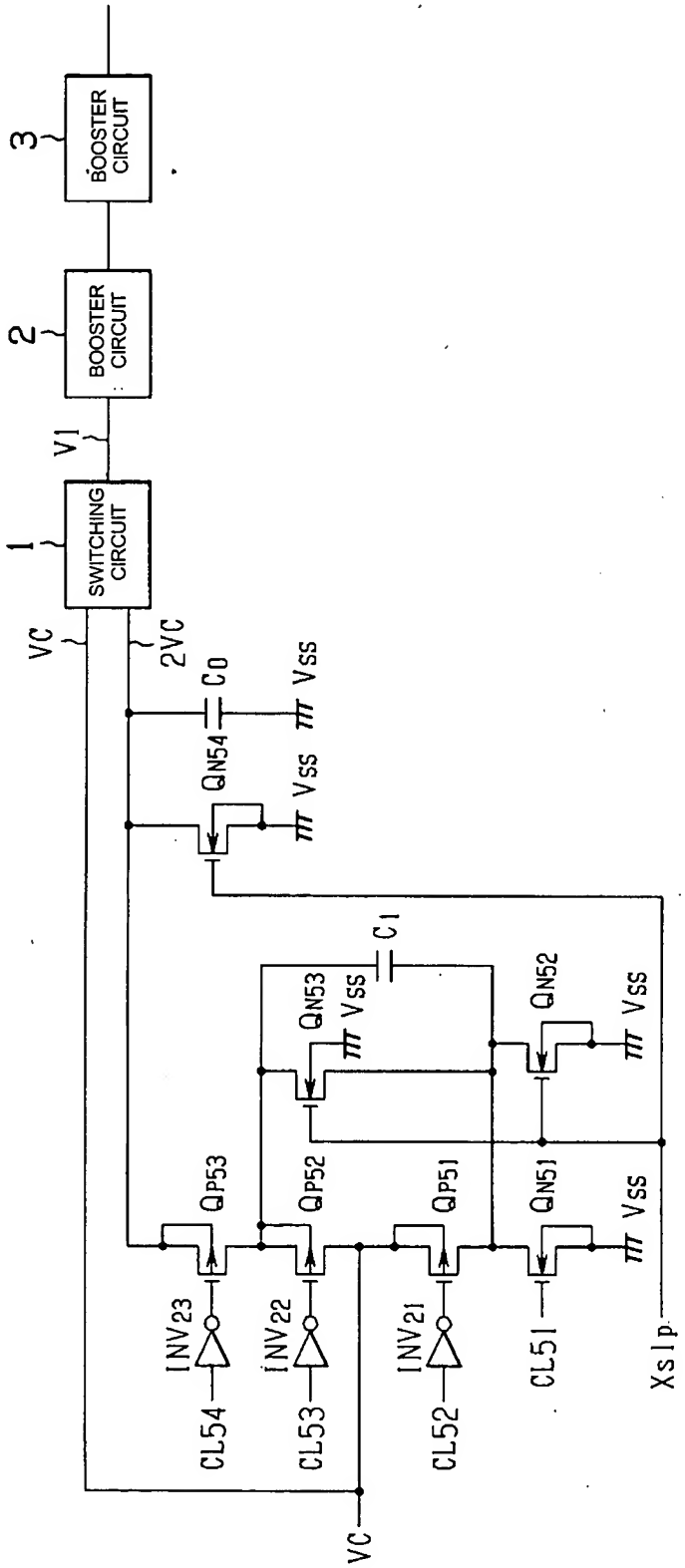

3
BOOSTER CIRCUIT
2
BOOSTER CIRCUIT
VI
1
SWITCHING CIRCUIT
VC
2VC
C0
Vss
QN54
Vss
C1
QN53
Vss
QN52
Vss
QP53
QP52
QP51
QN51
Vss
INV23
INV22
INV21
CL54
CL53
CL52
CL51
Xslp
VC

FIG.16

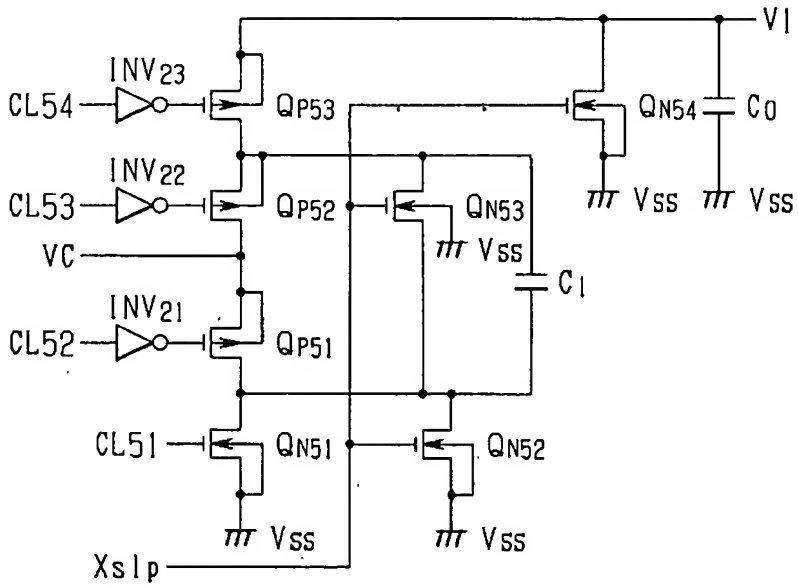

VI
INV23
CL54
QP53
QN54
CO
INV22
CL53
QP52
QN53
VSS
VSS
VSS
VC
CI
INV21
CL52
QP51
CL51
QN51
QN52
VSS
VSS
Xslp

FIG.17

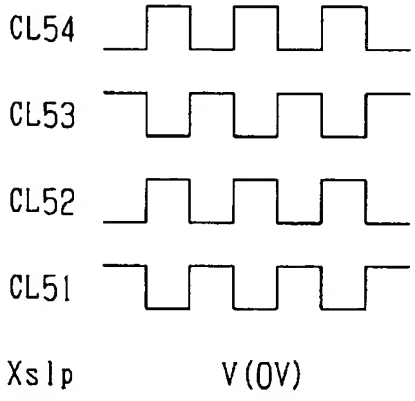

CL54
CL53
CL52
CL51
Xslp
V(0V)

FIG.18